

TITLE

1060071 Rheem Part # REL-09
R. F. Power Amplifier

LOCKHEED AIRCRAFT CORPORATION
MISSILE SYSTEMS DIVISION

TEST PROCEDURE
ACCEPTANCE
M060071

SHEET 2 OF 2 SHEETS

VENDOR: Rheem Mfg. Co.
Downey, Calif.

Reference: DCD 1060071-C
Vendor Dwg 20C033

1.0 INSPECTION CHARACTERISTICS:

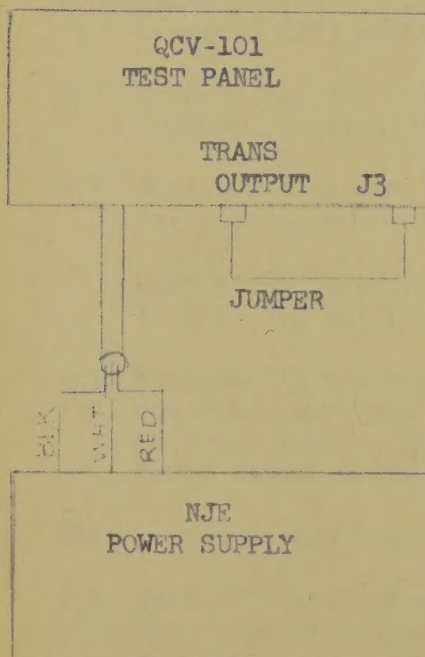
- 1.1 Filament: 6.3 VDC at 1.0 Amps. Max.
- 1.2 Plate 250 VDC at 125 Ma. Max.
- 1.3 Input Signal: 2.0 Watts. Max.
- 1.4 Power Output: 8.0 Watts. Min.
- 1.5 Zero Input
 - 1.5.1 Plate Current: 100 Ma. Max.
 - 1.5.2 R.F. Power Out: Zero

2.0 EQUIPMENT FOR TEST:

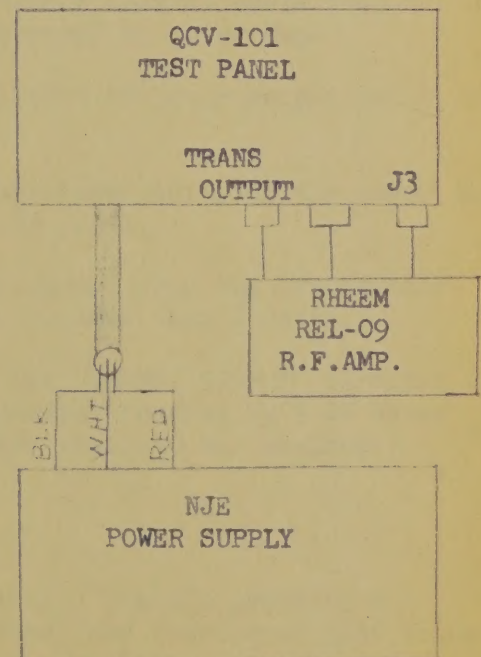
- 2.1 QC-V-101, Rheem Power Amp. Panel
- 2.2 NJE 42V65-() or equivalent
- 2.3 Clark VHF receiver (Optional).

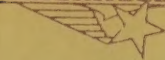
3.0 TEST SCHEMATIC:

3.1



3.2





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4.0 TEST PROCEDURE:

4.1 Preliminary test

4.1.1 Connect test equipment as shown above in Para. 3.1

4.2 Turn on main power switch on NJE power supply. B + switch should be in the "OFF" position.

4.3 Turn on test panel switch S 4

4.3.1 Select "FIL" position on switch S 1

4.3.2 Adjust power supply filament voltage until meter on test panel reads 6.3 VDC.

4.4 Set B + switch of power supply to the "ON" position.

4.4.1 Select "B+" position of S 1 switch on test panel.

4.4.2 Adjust B+ voltage control for a reading of 250 VDC as read on test panel meter.

4.5 With coaxial cable jumper connected between "TRANS. OUTPUT" and center terminal (J3) of power output meter, read output of transmitter on 20 Watt scale. This reading should be between 1.4 to 2.0 Watts.

4.6 Place switch S 4 in "OFF" position. Disconnect coaxial cable from center terminal (J3) and connect it to "INPUT" terminal of power amp.

4.7 Connect coaxial cable from center terminal (J3) of power output meter to "OUTPUT" terminal of power amp.

4.8 Switch S 4 to "ON" position. Adjust trimmer capacitors, on the power amp., for maximum power output as indicated on the panel.

When properly adjusted and with proper excitation from the transmitter (1.4 to 2.0 Watts), this reading should be no less than 8 watts.

4.9 Momentarily disconnect coaxial cable from the "TRANS. OUTPUT" terminal and observe power amp. total plate current (multiply reading by 3 as shown on meter face). This value shall be no more than 100 MA. maximum. Power output meter should read zero.

5.0 This concludes the test.

5.1 Turn off main power switch and secure cabling. Install protective dust caps or covers on power amp. Affix decal and functional test stamp on unit.

